

SEQUENCE LISTING

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 Huber, Steven C
 Larabell, Carolyn A

<120> SYNTHETIC PEPTIDES THAT CAUSE F-ACTIN BUNDLING AND BLOCK ACTIN
 DEPOLYMERIZATION

<130> JIB-1571PCT

<140> Not yet assigned

<141> 2004-10-20

<150> US 60/513,275

<151> 2003-10-20

<160> 24

<170> PatentIn version 3.2

<210> 1

<211> 15

<212> PRT

<213> Zea mays

<220>

<221> peptide

<222> (1)..(15)

<400> 1

Glu	Asn	Gly	Ile	Val	Arg	Lys	Trp	Ile	Ser	Arg	Phe	Glu	Val	Trp
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<210> 2

<211> 15

<212> PRT

<213> Zea mays

<220>

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<222> (1)..(15)

<400> 2

Glu	Asn	Gly	Ile	Leu	Arg	Lys	Trp	Ile	Ser	Arg	Phe	Asp	Val	Trp
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<222> (1)..(15)

<400> 3

Glu Asn Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp
 1 5 10 15

<210> 4
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 <212> PRT
 <213> Zea mays

<220>
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 <222> (1)..(15)

<400> 4

Glu Asn Gly Ile Leu Lys Lys Trp Ile Ser Arg Phe Asp Val Trp
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<210> 5
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<220>
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 <222> (1)..(15)

<400> 5

Glu His Gly Ile Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp
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<210> 6
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 <212> PRT
 <213> Drosophila melanogaster, Homo sapiens

<220>
 <221> peptide
 <222> (1)..(15)

<400> 6

Glu His Gly Ile Ile Thr Asn Trp Asp Asp Met Glu Lys Ile Trp
 1 5 10 15

<210> 7
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 <213> Drosophila melanogaster

<220>
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 <222> (1)..(15)

<400> 7

Glu His Gly Ile Val Lys Asp Trp Asn Asp Met Glu Arg Ile Trp

1 5 10 15

<210> 8
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 <212> PRT
 <213> Drosophila melanogaster

<220>
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 <222> (1)..(15)

<400> 8

Glu Asn Gly Val Val Arg Asn Trp Asp Asp Met Cys His Val Trp
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<210> 9
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 <212> PRT
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<220>
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 <222> (1)..(17)

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Gly Asp Arg Val Leu Ser Arg Leu His Ser Val Arg Glu Arg Ile Gly
 1 5 10 15

Lys

<210> 10
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 <223> SS2 active peptide based on SuSy 377-392

<220>
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 <222> (1)..(18)

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Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu
 1 5 10 15

Lys Lys

<210> 11
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<220>
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Ile	Leu	Arg	Val	Pro	Phe	Arg	Thr	Glu	Asn	Gly	Ile	Val	Arg	Lys
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Gly	Ile	Val	Arg	Lys	Trp	Ile	Ser	Arg	Phe	Glu	Val	Trp	Pro	Tyr	Leu
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 <221> peptide
 <222> (1)..(16)

<220>
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 <222> (6)..(6)
 <223> replaced Tryptophan residue with Alanines

<220>
 <221> SITE
 <222> (13)..(13)
 <223> replaced Tryptophan residue with Alanine

<400> 13

Gly	Ile	Val	Arg	Lys	Ala	Ile	Ser	Arg	Phe	Glu	Val	Ala	Pro	Tyr	Leu
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Ser Arg Phe Glu Val Trp Pro Tyr Leu
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<210> 15
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Gly Pro Thr Leu Lys Arg Thr Ala Ser Thr Ala Phe Met Asn Thr Thr
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Ser Lys Lys

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<220>
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Gly Arg Met Arg Arg Ile Ala Thr Val Glu Met Met Lys Lys
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synthetic peptide

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<222> (1)..(8)

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Trp Ile Ser Arg Phe Glu Val Trp
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<210> 18
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<213> Artificial sequence

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<223> SP3 inactive synthetic peptide

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<221> PEPTIDE
<222> (1)..(10)

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Arg Arg Ile Ser Ser Val Glu Asp Lys Lys
1 5 10

<210> 19
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<212> PRT
<213> Drosophila melanogaster

<220>
<221> PEPTIDE
<222> (1)..(20)

<400> 19

Glu His Gly Ile Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp His
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His Thr Phe Tyr
20

<210> 20
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<221> PEPTIDE
<222> (1)..(15)

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1 5 10 15

<210> 21
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<212> PRT
<213> Homo sapiens

<220>
<221> PEPTIDE
<222> (1)..(15)

<400> 21

Glu Asn Gly Ile Val Arg Asn Trp Asp Asp Met Lys His Leu Trp
1 5 10 15

<210> 22
<211> 6
<212> PRT
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<220>
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synthetic peptide

<220>
<221> PEPTIDE
<222> (1)..(6)

<400> 22

Ser Arg Phe Glu Val Trp
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<210> 23
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<223> SS synthetic peptide B

<220>
<221> PEPTIDE
<222> (1)..(13)

<400> 23

Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu Lys Lys
1 5 10

<210> 24
<211> 20

<212> PRT
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<220>
<223> SS synthetic peptide C

<220>
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<222> (1)..(20)

<400> 24

Glu	Asn	Gly	Ile	Val	Arg	Lys	Trp	Ile	Ser	Arg	Phe	Glu	Val	Trp	Pro
1				5				10						15	

Tyr	Leu	Lys	Lys
			20